



PATENT
Attorney Docket No.: SAM-0313CIP
Customer No.: 29344

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Kyoung-woo Lee, et al. Examiner: not yet assigned
Serial No.: 10/625,007 Group Art Unit: 1326
Filed: July 23, 2003
Title: METHOD OF FABRICATING DUAL DAMASCENE
INTERCONNECTIONS OF MICROELECTRONIC DEVICE USING
HYBRID LOW K-DIELECTRIC AND CARBON-FREE INORGANIC
FILLER

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

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1-15-04

Date

Amy Green
Amy Green

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir: TRANSMITTAL LETTER

Enclosed herewith for filing in the above-identified patent application please find the following listed items:

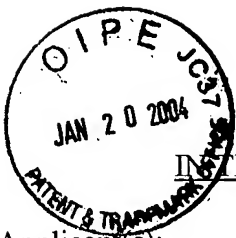
1. Information Disclosure Statement;
2. Forms PTO-1449 and copies of cited references AA-AK, AL, AR and BA-BE ; and
3. Return Postcard.

In connection with the foregoing matter, please charge any additional fees which may be due, or credit any overpayment, to Deposit Account Number 50-1798. A duplicate copy of this letter is provided for this purpose.

Respectfully submitted,

Date: January 15, 2004
Mills & Onello, LLP
Eleven Beacon Street, Suite 605
Boston, Massachusetts 02108
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Steven M. Mills
Steven M. Mills
Registration Number 36,610
Attorney for Applicants



PATENT

Attorney Docket No.: SAM-0313CIP

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

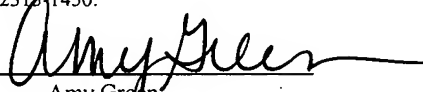
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1-15-04

Date


Amy Green

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☐ under 37 CFR 1.129(a), or
(First/Second submission after Final Rejection)
- ☒ under 37 CFR 1.97(b), or
(Within three months of filing national application other than a CPA under §1.53(d); or within three months of date of entry of the national stage in international application; or before mailing date of first Office Action on the merits; or before mailing date of first Office Action after filing RCE under §1.114, whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either:
- ☐ a Statement under 37 CFR 1.97(e), as checked below, or
- ☐ the \$180.00 fee under 37 CFR 1.17(p), or
(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, or other action which closes prosecution, whichever occurs first)
- ☐ under 37 CFR 1.97(d) together with:
- ☐ a Statement under 37 CFR 1.97(e), as checked below, and
- ☐ the \$180.00 fee set forth in 37 CFR 1.17(p).
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

Applicant(s): Kyoung-woo Lee, et al.
Serial No.: 10/625,007

Statement Under 37 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, after making reasonable inquiry, was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Enclosed herewith is form PTO-1449:

- ☒ Copies of cited references are enclosed.
- ☐ Copies of cited references are enclosed except those entered in prior application, U.S. Serial No. _____, and references that are not required to be submitted under 37 CFR 1.98.
- ☐ The listed references were cited in a counterpart foreign application.

Concise Explanation Requirement (non-English references):

☒ The "concise explanation" requirement under 36 CFR 1.98(a)(3)(i) for reference AL is satisfied by:

- ☐ the explanation provided on the attached sheet.
- ☐ the explanation provided in the Specification.
- ☒ abstract.

It is requested the information disclosed herein be made of record in this application.


Applicant(s): Kyoung-woo Lee, et al.
Serial No.: 10/625,007

Method of payment:

- ☐ Enclosed is a check in the amount of _____.
- ☐ Please charge Deposit Account of 50-1798 in the amount of _____.
- ☐ Two duplicate copies of this Statement are enclosed.
- ☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account No. 50-1798.

Respectfully submitted,

Date: January 15, 2004
Mills & Onello, LLP
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Steven M. Mills
Registration Number 36,610
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Subst. Form PTO-1449

Docket Number (Optional)

Application Number

SAM-0313CIP

10/625,007

Applicant

Kyoung-woo Lee, et al.

Filing Date

July 23, 2003

Group Art Unit

1326

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

U. S. Patent Documents

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	6,559,520	5/6/03	Matsuki, et al.	257	642	4/25/02
	AB	6,514,880	2/4/03	Matsuki, et al.	438	780	4/6/01
	AC	6,455,445	9/24/02	Matsuki	438	789	3/28/01
	AD	6,432,846	8/13/02	Matsuki	438	790	10/18/00
	AE	6,410,463	6/25/02	Matsuki	438	790	10/18/00
	AF	6,383,955	5/7/02	Matsuki	438	790	6/7/99
	AG	6,352,945	3/5/02	Matsuki, et al.	438	778	6/7/99
	AH	6,057,239	5/2/00	Wang, et al.	438	689	12/17/97
	AI	5,989,997	11/23/99	Lin, et al.	438	622	4/17/98
	AJ	2001/0046778	11/29/01	Wang, et al.	438	706	3/22/00
	AK	6,465,358	10/15/02	Nashner, et al.	438	700	10/6/00

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
	AL	KR 0029195	25-5-00	Korea	Co9K	3/10		X
	AM							
	AN							
	AO							
	AP							
	AQ							

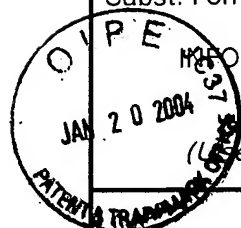
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Jiang, P, et al., Trench Etch Processes for Dual Damascene Patterning of Low-k Dielectrics, J. Vac. Sci. Technol. A 19(4), Jul/Aug. 2001, pgs. 1388-1391.
	AS	
	AT	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy with next communication to applicant.



Subst. Form PTO-1449

Docket Number (Optional)

Application Number

SAM-0313CIP

10/625,007

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

Applicant

Kyoung-woo Lee, et al.

Filing Date

July 23, 2003

Group Art Unit

1326

(Use several sheets if necessary)

U. S. Patent Documents

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA	6,391,761	5/21/02	Lui	438	618	9/20/99
	BB	6,323,121	11/27/01	Liu, et al.	438	633	5/12/00
	BC	6,319,815	11/20/01	Iguchi, et al.	438	624	10/18/99
	BD	6,221,759	4/24/01	Bothra, et al.	438	627	6/19/98
	BE	6,093,966	7/25/00	Venkatraman, et al.	257	751	3/20/98
	BF						
	BG						
	BH						
	BI						
	BJ						
	BK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
	BL							
	BM							
	BN							
	BO							
	BP							
	BQ							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	BR	
	BS	
	BT	

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